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Contents

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Research questions
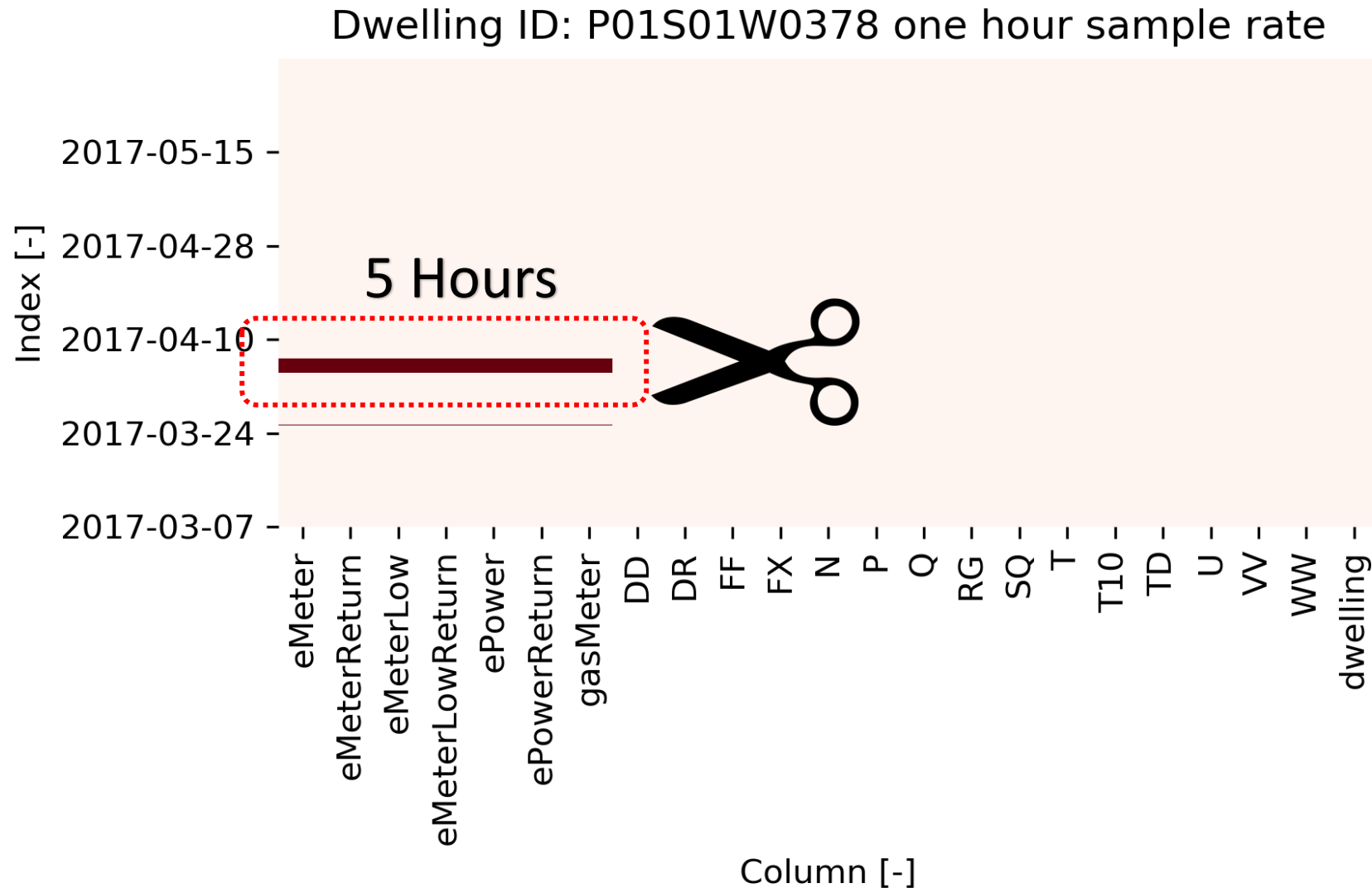
THE **HAGUE**
UNIVERSITY
OF APPLIED SCIENCES

#1

" Is it possible to predict the energy and gas usage of a house with few physical building parameters *for a month ahead with an hourly frequency?"*

#2

" Is it possible to predict the activity of people in their houses with only the smart sensor data? "

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Data cleaning ☺

Dwelling ID: P01S01W0378 one hour sample rate

5 Hours

Ideas

Regression:

- New variables

  Example: T-1 day

Neural Networks:

- Sequence to Sequence Learning

- LSTM(Long Short Term Memory)
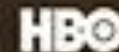
New highest priority

	Multivariate Regression	Fourier	Neural Networks
1 hour	…	…	…
1 day	…	…	…
1 week	…	…	…

Next week

Next week

	Multivariate regression	Fourier	Neural Networks
1 hour	…	…	…
1 day	…	…	…
1 week	…		…

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Questions?